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**NewsSearch: An Architecture for Information Retrieval
of Online News (1999) (Make Corrections)**

Nuno Maria, Mário J. Silva

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Abstract: Efficient information retrieval of highly dynamic information, such as news, is a complex task. As a result, search and retrieval environments for continuously updated news, from other sources than the largest media conglomerates, are almost absent on the Internet. To address this problem, we propose an architecture for a retrieval mechanism designed to improve retrieval efficiency of online news for the networked communities not indexed by the global search engines. I. Introduction The... ([Update](#))

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- 81 Inductive Learning Algorithms and Representations for Text C.. (context) - Dumais, Platt et al. - 1998
- 71 STARTS: Stanford Proposal for Internet MetaSearching - Gravano, Chang et al. - 1997
- 27 A Case for Interaction: a Study of Interactive Information R.. - Koenemann, Belkin - 1996
- 14 Sorting Out Searching: a User-Interface Framework for Text S.. (context) - Shneiderman, Byrd et al. - 1998
- 10 NCSTRL: Design and Deployment of a Globally Distributed Digi.. - Davis, Lagoze - 1999
- 7 ARIADNE - Digital Library Architecture - Maria, Gaspar et al. - 1998
- 5 Information Preservation in ARIADNE - Maria, Gaspar et al. - 1998
- 4 The Stanford InfoBus and Its Service Layers: Augmenting the .. - Roscheisen, Baldonado et al. - 1998
- 2 and Ketchpel S (context) - Genesereth - 1994
- 1 Interoperability for Digital Libraries (context) - Paepcke, Chang et al. - 1998

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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Stu

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, reference:

Understanding distributed applications is a tedious and difficult task. Visualizatio
often used to obtain a better understanding of the execution of the application.
event tracer developed at the University of Waterloo. However, these diagrams
provide the user with the desired overview of the application. In our experience,
of non-trivial commun ...

2 Computing curricula 2001

September 2001


Journal on Educational Resources in Computing (JERIC)

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, in

3 Process migration

September 2000

ACM Computing Surveys (CSUR), Volume 32 Issue 3

Full text available:  pdf(1.24 MB)

Additional Information: full citation, abstract, references, citings

Process migration is the act of transferring a process between two machines. It resilience, eased system administration, and data access locality. Despite these migration has not achieved widespread use. With the increasing deployment of distributed operating systems in particular, process migration is again receiving product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution,

4 ObjectGlobe: Ubiquitous query processing on the Internet

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stock
August 2001 The VLDB Journal — The International Journal on Very Large D

Full text available:  pdf(251.44 KB)

Additional Information: full citation, abstract,

We present the design of ObjectGlobe, a distributed and open query processor f published on the Internet via Web servers which have, if at all, very localized q the ObjectGlobe project is to establish an open marketplace in which *data* and *q* distributed and used by any kind of Internet application. Furthermore, ObjectGl ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Op Query optimization, Security

5 Information retrieval on the web

Mei Kobayashi, Koichi Takeda

June 2000

ACM Computing Surveys (CSUR), Volume 32 Issue 2

Full text available:  pdf(213.89 KB)

Additional Information: full citation, abstract, references,

In this paper we review studies of the growth of the Internet and technologies ti retrieval on the Web. We present data on the Internet from several different so number of users, hosts, and Web sites. Although numerical figures vary, overall and point to exponential growth in the past and in the coming decade. Hence it Internet user ...

Keywords: Internet, World Wide Web, clustering, indexing, information retrieval

6 Searching the Web

August 2001

ACM Transactions on Internet Technology (TOIT), Volume 1 Issue 1

Full text available:  pdf(319.98 KB)

Additional Information: full citation, abstract, references, citing

We offer an overview of current Web search engine design. After introducing a c examine each engine component in turn. We cover crawling, local Web page sto analysis for boosting search performance. The most common design and implem components are presented. For this presentation we draw from the literature an engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval

7 Going wireless, enabling an adaptive and extensible environment

Theo G. Kanter

February 2003

Mobile Networks and Applications, Volume 8 Issue 1

Full text available:  pdf(483.21 KB)

Additional Information: full citation, abstract, referen

This paper discusses limitations in existing and projected solutions for delivering in an increasingly diverse heterogeneous wireless infrastructure in combination communication and with an increasing number of more narrowly defined roles o applications to mobile users. Furthermore, for future service growth, users need applications t ...

Keywords: agents, context, scalability, service, wireless

8 System-level power optimization: techniques and tools

Luca Benini, Giovanni de Micheli

April 2000

ACM Transactions on Design Automation of Electronic Systems (TODAE

Full text available:  pdf(385.22 KB)

Additional Information: full citation, abstract, references,

This tutorial surveys design methods for energy-efficient system-level design. W a hardware platform and software layers. We consider the three major constitue namely computation, communication, and storage units, and we review method: We also study models for analyzing the energy cost of software, and methods fc compilation. This survery ...

9 The state of the art in distributed query processing

Donald Kossmann

December 2000

ACM Computing Surveys (CSUR), Volume 32 Issue 4

Full text available:  pdf(455.39 KB)


Additional Information: full citation, abstract, references,

Distributed data processing is becoming a reality. Businesses want to do it for n order to stay competitive. While much of the infrastructure for distributed data (network technology), a number of issues make distributed data processing still ; systems can become very large, involving thousands of heterogeneous sites incl machines; (2) the stat ...

Keywords: caching, client-server databases, database application systems, disse economic models for query processing, middleware, multitier architectures, que replication, wrappers

10 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegil
July 2001 ACM Transactions on Programming Languages and Systems (TOPLAS),

Full text available:  pdf(1.95 MB)

Additional Information: full citation, abstract, references, ci

Since the early days of logic programming, researchers in the field realized the present in the execution of logic programs. Their high-level nature, the presence transparency, among other characteristics, make logic programs interesting can parallel execution. At the same time, the fact that the typical applications of logi irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programmin

11 Balancing performance and flexibility with hardware support for network arc

Ilija Hadži?, Jonathan M. Smith

November 2003

ACM Transactions on Computer Systems (TOCS), Volume 21

Full text available:  pdf(719.03 KB)

Additional Information: full citation, abstract, referen

The goals of performance and flexibility are often at odds in the design of netwo enough to justify an architectural solution, rather than a set of context-specific : Processing Pipeline (P4) design uses programmable hardware to selectively acce of field-programmable gate arrays (FPGAs) and an associated library of network hardware are augmented with so ...


Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable networks, protocol processing

12 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999

ACM SIGMOD Record, Volume 28 Issue 1

Full text available:  pdf(1.96 MB)

Additional Information: full citation, index terms

13 PODS invited talk: Models and issues in data stream systems

Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom

June 2002 Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium

Full text available:  pdf(257.79 KB)

Additional Information: full citation, abstract, references,


In this overview paper we motivate the need for and research issues arising from model, data does not take the form of persistent relations, but rather arrives in *data streams*. In addition to reviewing past work relevant to data stream system paper explores topics in stream query languages, new requirements and challenges.

14 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000

ACM Transactions on Information Systems (TOIS), Volume 18 I

Full text available:  pdf(6.94 MB)

Additional Information: full citation, abstract, references, c

This paper describes a methodology for the development of WWW applications and for the methodology. The methodology and the development environment are based on the hypermedia, information systems, and software engineering fields, and The foundation of the proposal is the conceptual design of WWW applications, using specification of structure, navigation ...

Keywords: HTML, WWW, application, development, intranet, modeling

15 Formalizing the safety of Java, the Java virtual machine, and Java card

Pieter H. Hartel, Luc Moreau

December 2001

ACM Computing Surveys (CSUR), Volume 33 Issue 4

Full text available:  pdf(442.86 KB)

Additional Information: full citation, abstract, references,

We review the existing literature on Java safety, emphasizing formal approaches and footprint devices such as smartcards. The conclusion is that although a lot of good effort is needed to build a coherent set of machine-readable formal models of the This is a formidable task but we believe it is essential to build trust in Java safety Common Criteria ...

Keywords: Common criteria, programming

16 Web-based analysis and distributed IP

Philip A. Wilsey

December 1999 Proceedings of the 31st conference on Winter simulation: Simulation

Full text available:  pdf(88.08 KB)

Additional Information: full citation, references, ind

17 Safely executing untrusted code: Upgrading transport protocols using untru

Parveen Patel, Andrew Whitaker, David Wetherall, Jay Lepreau, Tim Stack

October 2003 Proceedings of the nineteenth ACM symposium on Operating syste

Full text available:  pdf(248.86 KB)

Additional Information: full citation, abstract, referen


In this paper, we present STP, a system in which communicating end hosts use upgrade each other with the transport protocols that they use to communicate. type-safe version of C, distributed out-of-band, and run in-kernel. Communicati as part of a TCP-like connection setup handshake that is backwards-compatible setup latency. New transports ...

Keywords: TCP-friendliness, deployment, implementation, transport protocols, u

18 An extensible probe architecture for network protocol performance measuri

G. Robert Malan, Farnam Jahanian

October 1998 ACM SIGCOMM Computer Communication Review , Proceedings of the Applications, technologies, architectures, and protocols for computer c

Full text available:  pdf(1.83 MB)

Additional Information: full citation, abstract, references, c

This paper describes the architecture and implementation of Windmill, a passive measurement tool. Windmill enables experimenters to measure a broad range o reconstructing application-level network protocols and exposing the underlying p into three functional components: a dynamically compiled Windmill Protocol Filte modules, and an extensible experiment e ...

Keywords: online analysis, packet filter, passive measurement, protocol perform

19 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann

May 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 3

Full text available:  pdf(1.92 MB)


Additional Information: full citation

20 Pen computing: a technology overview and a vision

André Meyer

July 1995

ACM SIGCHI Bulletin, Volume 27 Issue 3

Full text available:  pdf(5.14 MB)

Additional Information: full citation, abstract, citings,

This work gives an overview of a new technology that is attracting growing inter industry itself. The visible difference from other technologies is in the use of a p interaction between a user and a machine, picking up the familiar pen and pape set of consequences that will be analyzed and put into context with other emerg a short historic ...

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